

PRESSURE MEASUREMENT DEVICE

Abstract of the Disclosure

5 A device measures pressures in animals and humans and includes a pressure
transmission catheter (PTC) filled with a pressure transmitting medium and
implantable in an area in having a physiological pressure. A transducer
communicates with the pressure transmitting medium to provide a pressure signal
representing variations in the physiologic pressure on electrical wires. A connecting
10 catheter carries the electrical wires to signal processing and telemetry circuitry,
which transmits a telemetry signal representing the pressure signal to a receiver
external to the animal or human. A housing holds the signal processing and
telemetry circuitry, but the transducer is remote from the housing. The device is
particularly useful in measuring venous pressure, pulmonary pressure, bladder
15 pressure, or intracranial pressure without significant head pressure artifact and with a
sufficient dynamic response. One embodiment of the PTC includes a multi-
durometer stem.

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